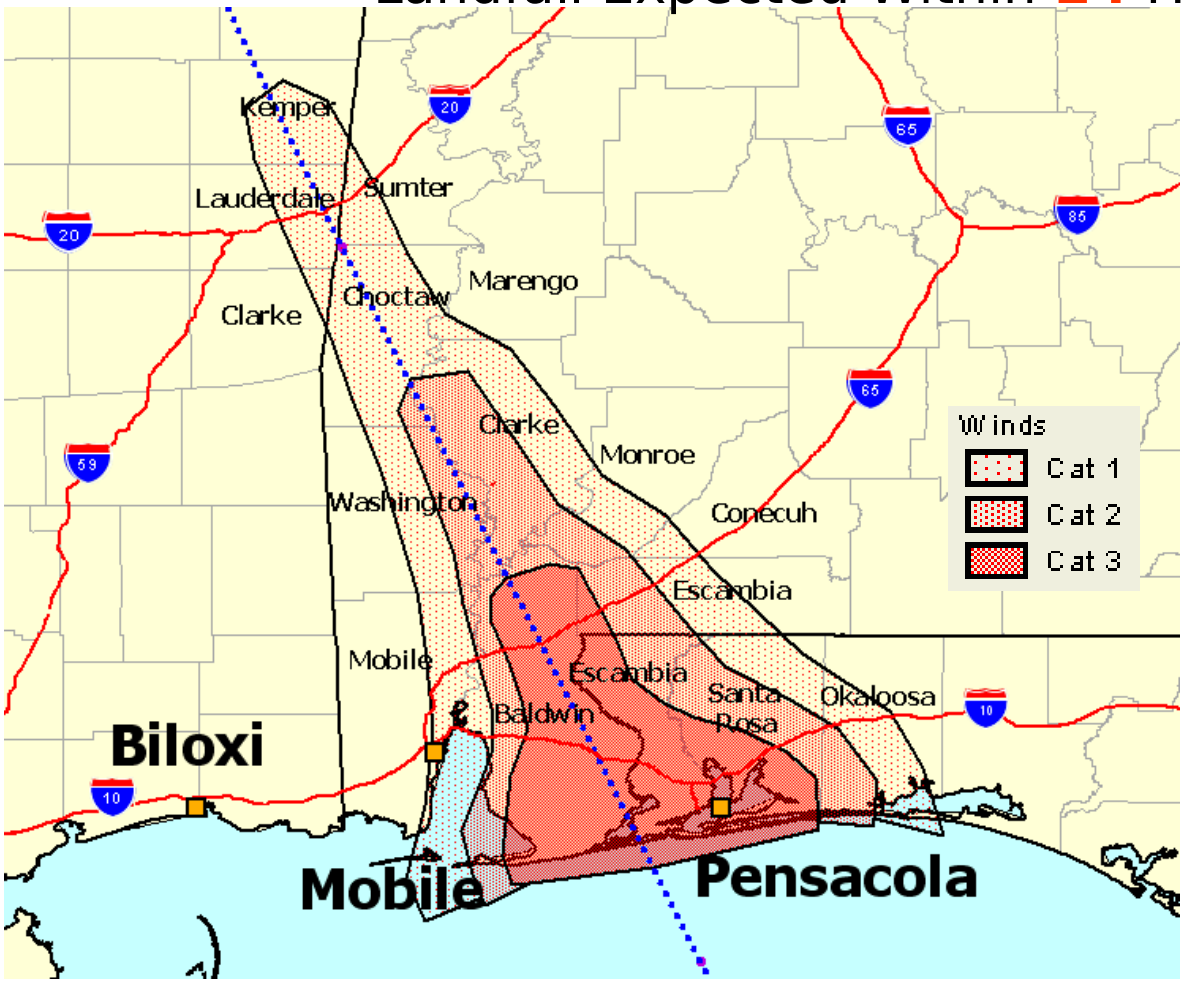
Hurricane Dennis Wind Distribution

Landfall Expected Within **24** Hours

For Official Use Only!



Most Probable Landfall Wind Distribution

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 07/09/2005)*** forecast.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Wind Field

Sources:
HURREVAC
LRL-DEBRIS

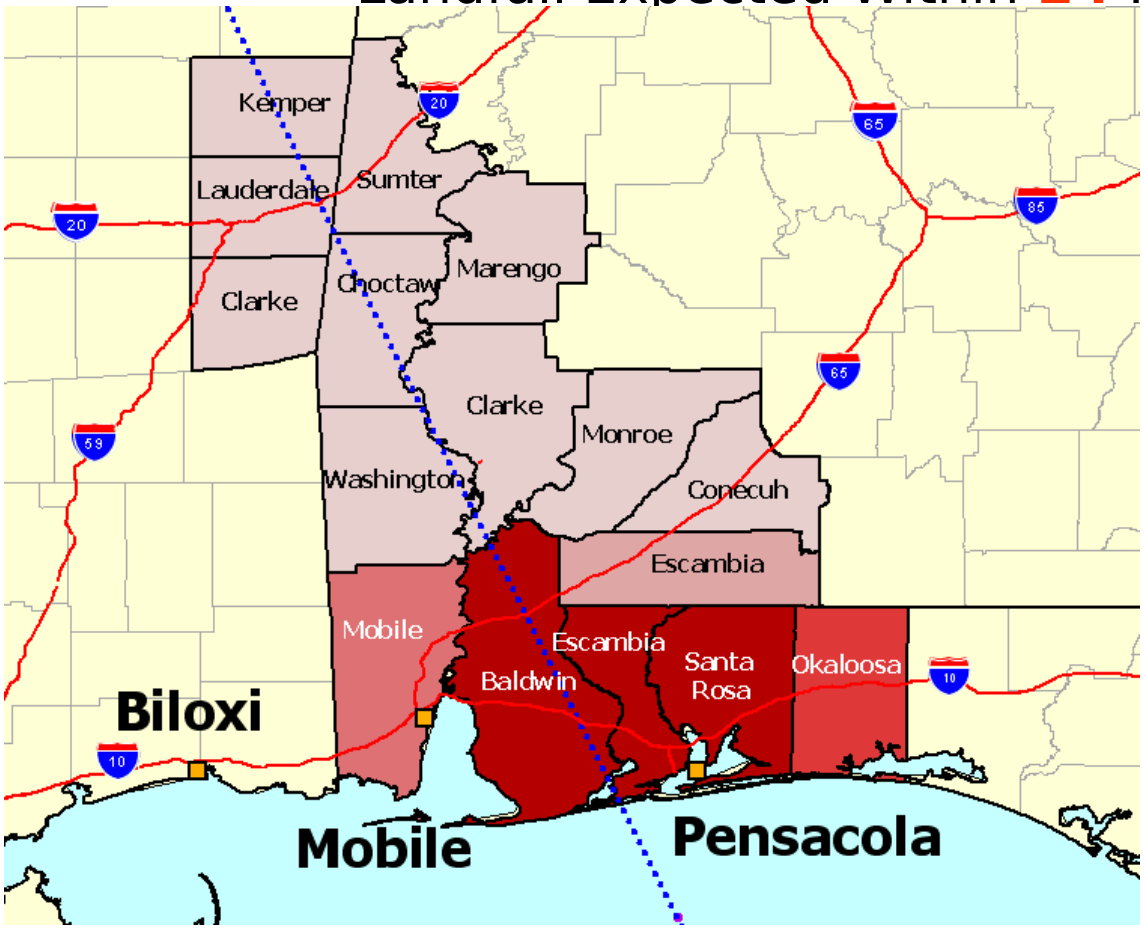
Generated By:
Terry Siemsen

Generated Date:
1700 EDT
07/09/2005

Hurricane Dennis Debris Model

Landfall Expected Within **24** Hours

For Official Use Only!



Most Probable Landfall Debris Model Results

Florida – 10,276,000 yd^3
Alabama – 2,986,000 yd^3
Mississippi – 34,000 yd^3

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 07/09/2005)*** forecast.

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Debris Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
1700 EDT
07/09/2005

Hurricane Dennis Debris Model

Landfall Expected Within **24** Hours

For Official Use Only!

State	CY per State	County	CY per County
Alabama	2,986,000		
		Baldwin	2,295,000
		Choctaw	24,000
		Clarke	96,000
		Conecuh	1,000
		Escambia	153,000
		Lauderdale	1,000
		Marengo	1,000
		Mobile	348,000
		Monroe	23,000
		Sumter	5,000
		Washington	39,000
Florida	10,276,000		
		Escambia	7,368,000
		Okaloosa	594,000
		Santa Rosa	2,314,000
Mississippi	34,000		
		Clarke	1,000
		Kemper	6,000
		Lauderdale	27,000
TOTAL	13,296,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Debris Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
1700 EDT
07/09/2005

Hurricane Dennis Ice Model

Landfall Expected Within **24** Hours

For Official Use Only!

Most Probable Landfall Ice Model Results

Florida – 2,209,000 pounds
Alabama – 1,087,000 pounds
Mississippi – 51,000 pounds

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 07/09/2005)*** forecast. The intensity of this hurricane has been altered to complete model runs.

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Ice Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
1700 EDT
07/09/2005

Hurricane Dennis Ice Model

Landfall Expected Within **24** Hours

For Official Use Only!

State	Lbs. per State	County	Lbs. Per County	Truckloads
Alabama	1,087,000			33
		Baldwin	547,000	14
		Choctaw	30,000	1
		Clarke	55,000	2
		Conecuh	2,000	1
		Escambia	74,000	2
		Lauderdale	1,000	1
		Marengo	1,000	1
		Mobile	319,000	8
		Monroe	23,000	1
		Sumter	7,000	1
		Washington	28,000	1
Florida	2,209,000			56
		Escambia	1,395,000	35
		Okaloosa	311,000	8
		Santa Rosa	503,000	13
Mississippi	51,000			4
		Clarke	1,000	1
		Kemper	9,000	1
		Lauderdale	41,000	2
TOTAL	3,347,000			93

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Dennis will have power outage in this area will cause a need for ice.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Ice Model

Sources:
HURREVAC
LRL-DEBRIS

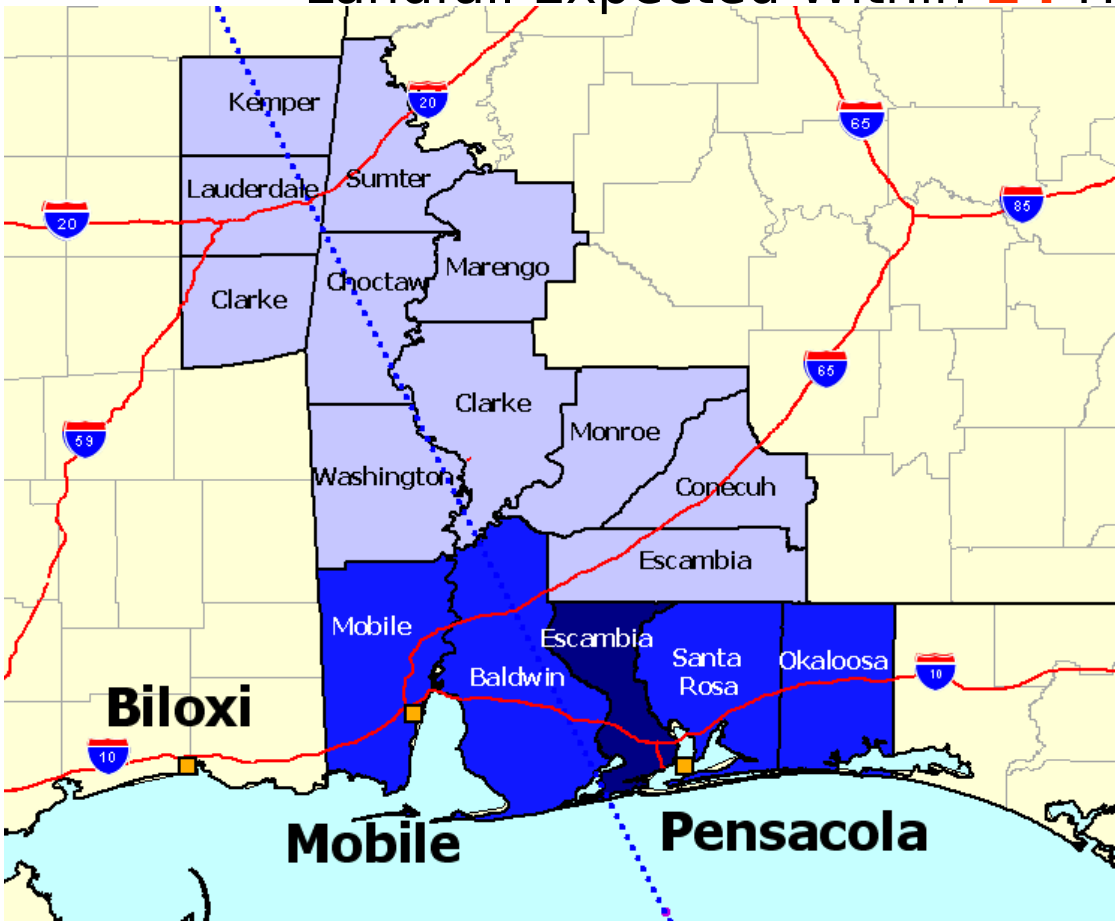
Generated By:
Terry Siemsen

Generated Date:
1700 EDT
07/09/2005

Hurricane Dennis Water Model

Landfall Expected Within **24** Hours

For Official Use Only!



Most Probable Landfall Water Model Results

Florida – 827,000 Liters
Alabama – 411,000 Liters
Mississippi – 20,000 Liters

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 07/09/2005)*** forecast.

The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Water Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
1700 EDT
07/09/2005

Hurricane Dennis Water Model

Landfall Expected Within **24** Hours

For Official Use Only!

State	Liters per State	County	Liters per County	Truckloads
Alabama	411,000			30
		Baldwin	205,000	12
		Choctaw	11,000	1
		Clarke	21,000	2
		Conecuh	1,000	1
		Escambia	28,000	2
		Lauderdale	1,000	1
		Marengo	1,000	1
		Mobile	120,000	7
		Monroe	9,000	1
		Sumter	3,000	1
		Washington	11,000	1
Florida	827,000			48
		Escambia	523,000	30
		Okaloosa	116,000	7
		Santa Rosa	188,000	11
Mississippi	20,000			3
		Clarke	1,000	1
		Kemper	3,000	1
		Lauderdale	16,000	1
TOTAL	1,258,000			81

The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Dennis will have power outage in this area will cause a need for water.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Water Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
1700 EDT
07/09/2005

Hurricane Dennis Population Model

Landfall Expected Within **24** Hours

For Official Use Only!

Most Probable Landfall Population Model Results

Florida – 541,000 persons
Alabama – 365,000 persons
Mississippi – 22,000 persons

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 07/09/2005)*** forecast.

The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Population Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
1700 EDT
07/09/2005

Hurricane Dennis Population Model

Landfall Expected Within **24** Hours

For Official Use Only!

State	Pop. Per State	County	Pop. Per County
Alabama	365,000		
		Baldwin	140,000
		Choctaw	13,000
		Clarke	23,000
		Conecuh	1,000
		Escambia	28,000
		Lauderdale	1,000
		Marengo	1,000
		Mobile	133,000
		Monroe	10,000
		Sumter	3,000
		Washington	12,000
Florida	541,000		
		Escambia	295,000
		Okaloosa	129,000
		Santa Rosa	117,000
Mississippi	22,000		
		Clarke	1,000
		Kemper	4,000
		Lauderdale	17,000
TOTAL	928,000		928,000

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Population Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
1700 EDT
07/09/2005

Hurricane Dennis Households Model

Landfall Expected Within **24** Hours

For Official Use Only!

Most Probable Landfall Households Model Results

Florida – 205,000 households
Alabama – 141,000 households
Mississippi – 8,000 households

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 07/09/2005)*** forecast.

The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Households Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
1700 EDT
07/09/2005

Hurricane Dennis Households Model

Landfall Expected Within **24** Hours

For Official Use Only!

State	Households per State	County	Households per County
Alabama	141,000		
		Baldwin	55,000
		Choctaw	5,000
		Clarke	9,000
		Conecuh	1,000
		Escambia	10,000
		Lauderdale	1,000
		Marengo	1,000
		Mobile	50,000
		Monroe	4,000
		Sumter	1,000
		Washington	4,000
Florida	205,000		
		Escambia	111,000
		Okaloosa	51,000
		Santa Rosa	43,000
Mississippi	8,000		
		Clarke	1,000
		Kemper	1,000
		Lauderdale	6,000
TOTAL	354,000		

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Households Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
1700 EDT
07/09/2005

Hurricane Dennis Temporary Roofing Model Results

Landfall Expected Within **24** Hours

For Official Use Only!

Most Probable Landfall Temporary Roofing Model Results

Florida – 8,300
Alabama – 2,300
Mississippi - 123

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 07/09/2005)*** forecast.

The amount of temporary roofing that may be required is based on 1% of housing units damaged in CAT 1 wind areas, 3% of housing units damaged in CAT 2 wind areas, and 6% of housing units damaged in CAT 3 wind area. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Temp Roofing Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
1700 EDT
07/09/2005

Hurricane Dennis Temporary Roofing Model Results

For Official Use Only!

State	Structures per State	County	Structures per County
Alabama	4,200		
		Baldwin	2,600
		Choctaw	100
		Clarke	200
		Conecuh	100
		Escambia	300
		Marengo	100
		Mobile	500
		Monroe	100
		Sumter	100
		Washington	100
Florida	9,800		
		Escambia	6,600
		Okaloosa	900
		Santa Rosa	2,300
Mississippi	300		
		Clarke	100
		Kemper	100
		Lauderdale	100
TOTAL	14,300		

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary roofing that may be required is based on 1% of housing units damaged in CAT 1 wind areas, 3% of housing units damaged in CAT 2 wind areas, and 6% of housing units damaged in CAT 3 wind area. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis emp Roofing Model

Sources: HURREVAC LRL-DEBRIS

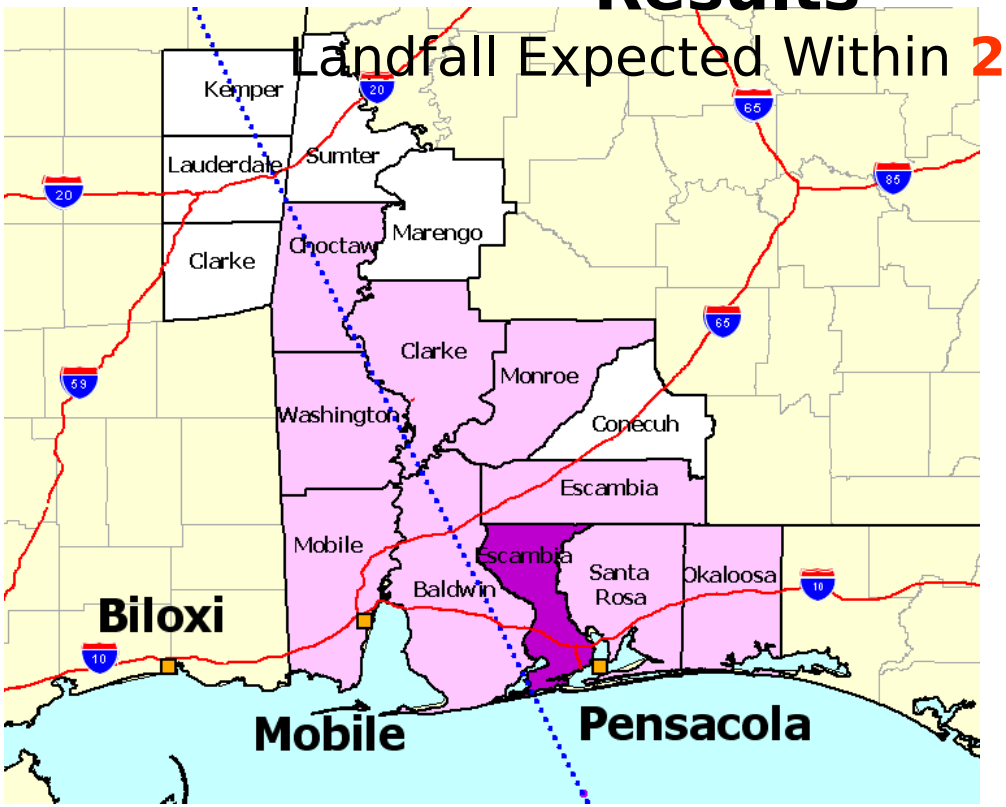
Generated By: Terry Siemsen

Generated Date: 1700 EDT 07/09/2005

Hurricane Dennis Temporary Housing Model Results

For Official Use Only!

Landfall Expected Within **24** Hours



Most Probable Landfall Temporary Housing Model Results

Florida – 6,300
Alabama – 2,600
Mississippi - 300

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC (***1700 EDT 07/09/2005***) forecast.

The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas, 2% of housing units lost in CAT 2 wind areas, and 4% of housing units lost in CAT 3 wind areas.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis emp Housing Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
1700 EDT
07/09/2005

Hurricane Dennis Temporary Housing Model Results

For Official Use Only!

Hours

State	Structure per State	County	Structures per County
Alabama	2,600		
		Baldwin	1,700
		Choctaw	100
		Clarke	100
		Conecuh	100
		Escambia	100
		Marengo	100
		Mobile	100
		Monroe	100
		Sumter	100
		Washington	100
Florida	6,300		
		Escambia	4,400
		Okaloosa	400
		Santa Rosa	1,500
Mississippi	300		
		Clarke	100
		Kemper	100
		Lauderdale	100
TOTAL	9,200		

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas, 2% of housing units lost in CAT 2 wind areas, and 4% of housing units lost in CAT 3 wind areas.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis emp Housing Model

Sources: HURREVAC LRL-DEBRIS

Generated By: Terry Siemsen

Generated Date: 1700 EDT 07/09/2005